COVER SHEET

Laboratory response to results of contract compliance screening (CCS)

Response To: (check one)

☐ Inorganic CCS

Response materials should be sent to the attention of the CCS coordinator.

Labcode:

EQI

Response date 01/13/2016

Date screening results received at the lab: 01/19/2016

EPA contract number:

EPW14035

Case number:

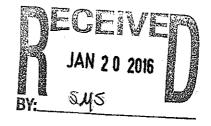
45671

SDG number:

F6R05

Fraction:

SVOAsim, VOA



Sample Number: VARIOUS

*Only list sample numbers that require reconciliation.

This form is used to identify materials sent in response to results of Contract Compliance Screening (CCS). A separate form must accompany the response for each fraction.

Please indicate on the attached continuation form which fractions and/or which criteria corresponds with your resubmission. Response materials sent to CCS should also be copied to the region with this blue cover sheet.

Attachment H

LABORATORY RESPONSE TO RESULTS OF CONTRACT COMPLIANCE **SCREENING**

LABCODE: EQI

RESPONSE DATE: 01/19/2016

EPA CONTRACT No.

EPW14035

CASE No.

45671

SDG No.

F6R05

FRACTION:

SVOAsim, VOA

Fraction	Defect	Defect Message	Action				
SVOAsim	MD.3.4	Required information on Raw Data is discrepant	Replaced correct Raw Data information and submitted				
NARRATIVE	MD.2.4	SDG Number is incorrect	Corrected SDG number and submitted				

Linda Waters, Data Review

Robert Zhu, Technical Director

Shealy Environmental Services, Inc. rzhu@shealylab.com

Phone 803-227-3152

Shealy Environmental Services, Inc.

SDG Narrative 01/04/2016 Case 45671 SDG F6R05 SOW: SOM02.3

Contract Number: EPW14035 Solicitation: 2655A MA: 2544.1

Columns	TVOA/TVOA SIM/VOA DB-624, 30m x 0.25mm x 1.4um SVOA/SVOA SIM ZEBRON ZB-SV, 30m x 0.25mm x 0.5um
VOA Trap	OI #10

TVOA/VOA	$(A_x)(I_s)(DF)$					
Equation	Water sample concentration (ug/L) = $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(V_o)}$					
	Soil sample concentration (ug/Kg) = $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(Ws)(D)}$					
	Where A_x is the area of the characteristic ion (EICP) for the compound to be measured. A_{is} is the area of the characteristic ion (EICP) for the internal standard. Is the amount of internal standard added, in ng.					
	RRF is the mean relative response factor from the initial calibration. DF is the dilution factor. V _o is total volume of water purged, in mL.					
	Ws is the weight of sample added to the purge tube in g. $D = \frac{100 - \%\text{moisture}}{100}$					
SVOA/SVOA SIM Equation	Water sample concentration ug/L = $\frac{(Ax)(Is)(Vt)(DF)(GPC)}{(Ais)(RRF)(Vo)(Vi)}$					
	Soil sample concentration (ug/Kg) = $\frac{(Ax)(Is)(Vt)(DF)(GPC)}{(Ais)(RRF)(Vi)(Ws)(D)}$					
	Where A_x is the area of the characteristic ion (EICP) for the compound to be measured. A_{is} is the area of the characteristic ion (EICP) for the internal standard. I_s is the amount of internal standard added, in ng.					
	$W_{\text{s}} \text{ is the weight of sample extracted in g.} \\ D = \frac{100 - \% Moisture}{100}$					

Sample Receiving

The seventeen soil samples in this SDG were received in sealed shipping containers on December 08, 09 and 11, 2015. The cooler temperatures associated with these samples were 4.6, 1.4, 3, 3.6 and 3°C.

The temperature was determined using a calibrated Fluke 66 IR thermometer.

FORM 6A-OR MODIFIED GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc.	_	Contract: <u>EP-W-14035</u>	
Lab Code: EQI Case No.: 45671 Analytical Method: SVOASIM		MA No: <u>2544.1</u> SDG No.: <u>F6RC</u> Level: <u>Low</u>	
Instrument ID: Agilent MSD4		Calibration Date(s): 12/18/2015	
GC Column: Zebron ZB-SV ID: 0.25	(mm)	Calibration Time(s): 1425	1636
Length: <u>30</u>	(m)		
Heated Purge: (Y/N)		Purae Volume:	(mL

LAB FILE ID: 41218B02 RRF 0	.05_ 41218	3B02	RRF_0.1	= 41218B0	3 RI	RF_0.2=4	1218B04	
RRF 0.4= 41218B05 RRF 0.8=41218B06 RRF 1.6=41218B07								
COMPOUND	RRF0.05	RRF <u>0.1</u>	RRF_0.2	RRF_0.4	RRF_0.8	RRF_1.6	RRF	%RSD
1,4-Dioxane		0.606	0.630	0.569	0.576	0.5650	0.589	4.7
Naphthalene	1.081	1.021	1.048	1.049	1.009	1.0160	1.037	2.6
2-Methylnaphthalene	0.623	0.591	0.621	0.630	0.604	0.6070	0.613	2.3
Acenaphthylene	2.010	1.708	1.931	1.894	1.958	2.0440	1.924	6.2
Acenaphthene	1.586	1.470	1.577	1.532	1.592	1.5890	1.558	3.1
Fluorene	1.835	1.307	1.335	1.311	1.310	1.3910	1.415	14.7
Pentachlorophenol		0.048	0.045	0.058	0.062	0.0780	0.058	22.7
Phenanthrene	1.219	1.039	1.116	1.085	1.032	1.0450	1.089	6.5
Anthracene	1.093	0.953	1.069	1.095	1.065	1.0750	1.058	5.0
Fluoranthene	1.192	1.050	1.177	1.183	1.223	1.2680	1.182	6.2
Pyrene	1.190	1.027	1.096	1.101	1.072	1.0930	1.097	4.9
Benzo(a)anthracene	1.053			1.007	0.997	1.0150	0.993	4.8
Chrysene	1.136	0.945	0.972	0.979	0.942	0.9400	0.986	7.6
Benzo(b)fluoranthene	1.314	1.134	1.179	1.244	1.185	1.1770	1.205	5.3
Benzo(k)fluoranthene	1.339	1.121	1.160	1.231	1.178	1.1620	1.198	6.5
Benzo(a)pyrene	1.159	1.010	1.067	1.139	1.117	1.1290	1.104	5.0
Indeno(1,2,3-cd)pyrene	1.335	1.143	1.211	1.294	1.233	1.2410	1.243	5.4
Dibenzo(a,h)anthracene	1.155	0.993	1.055	1.131	1.075	1.0790	1.081	5.3
Benzo(g,h,i)perylene	1.155	0.978	1.028	1.080	1.011	0.9970	1.041	6.3
Dibenzofuran	2.417	1.908	1.972	1.959	1.921	1.8550	2.005	10.3
Hexachlorobenzene	0.256	0.217	0.233	0.236	0.231	0.2230	0.233	5.7
Hexachlorobutadiene		0.143	0.148	0.150	0.145	0.1460	0.146	1.9
bis(2-Chloroethyl)ether		1.382	1.417	1.391	1.345	1.2820	1.363	3.8
2,2'-Oxybis(1-chloropropane)		1.556	1.572	1.564	1.460	1.4400	1.518	4.1
N-Nitrosodi-n-propylamine	0.846	0.855	0.933	0.637	0.614	0.7660	0.775	16.4
Hexachloroethane]	0.388	0.406	0.416	0.398	0.4050	0.403	2.6
Nitrobenzene		0.263	0.286	0.285	0.278	0.2820	0.279	3.4
4-Chloroaniline		0.348	0.453	0.462	0.444	0.3600	0.413	13.2
2,4,6-Trichlorophenol		0.308	0.347	0.349	0.371	0.3810	0.351	8.0
1,1'-Biphenyl	2.471	2.174	2.295	2.178	2.215	2.1760	2.251	5.2
2,6-Dinitrotoluene	0.193	0.212	0.223	0.254	0.292	0.3060	0.247	18.3
2,4-Dinitrophenol		0.084	0.119	0.161	0.205	0.2450	0.163	39.7
2,4-Dinitrotoluene	0.234	0.215	0.251	0.275	0.27	0.3100	0.260	13.0
4,6-Dinitro-2-methylphenol		0.031	0.044	0.051	0.05	0.0650	0.050	26.1
1,2,4,5-Tetrachlorobenzene	T	0.648	0.682	0.658	0.672	0.6600	0.664	2.0

FORM 6A-OR MODIFIED GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc.	Contract: EP-W-14035
Lab Code: <u>EQI</u> Case No.: <u>45671</u> Analytical Method: <u>SVOA SIM</u>	MA No: 2544.1 SDG No.: F6R05 Level: Low
Instrument ID: Agilent MSD4	Calibration Date(s): 12/18/2015 12/18/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)	Calibration Time(s): 1425 1636
Length: (m)	
Heated Purge: (Y/N)	Purge Volume: (mL

LAB FILE ID: 41218B02 RRF C	RRF 0.05 = 41218B02		RRF 0.1 = 41218B03			RRF_0.2=41218B04			
RRF 0.4 = 41218B05 RRF 0.8 = 41218B06 RRF 1.6 = 41218B07									
COMPOUND	RRF <u>0.1</u>	RRF 0.1	RRF_0.2	RRF_0.4	RRF_0.8	RRF 1.6	RRF	%RSD	
Atrazine		0.171	0.205	0.191	0.216	0.2260	0.202	10.7	
3,3'-Dichlorobenzidine		0.232	0.196	0.269	0.279	0.2890	0.253	15.2	
1,4-Dioxane-d8		0.579	0.618	0.555	0.562	0.5560	0.574	4.6	
Fluoranthene-d10	0.934	0.981	1.038	1.043	1.160	1.1720	1.055	9.0	
2-Methylnaphthalene-d10	0.527	0.557	0.546	0.563	0.569	0.5560	0.553	2.7	
Bis(2-Chloroethyl)ether-d8		1.119	1.125	1.064	1.063	1.0270	1.080	3.8	
Nitrobenzene-d5		0.101	0.11	0.109	0.110	0.1170	0.109	5.3	
2,4-Dichlorophenol-d3		0.219	0.235	0.231	0.233	0.2370	0.231	3.0	

Sturges, Susan

From:

Whitlee Dean < Whitlee.Dean@csra.com>

Sent:

Monday, January 25, 2016 7:22 AM

To:

R9RSCC

Cc:

bbelding@shealylab.com; dwright@shealylab.com; nmagee@shealylab.com;

rzhu@shealylab.com; Flores, Raymond; Gorostiza, Sylvia; Humphrey, Marvelyn; Perez,

Mvra

Subject:

Region 06 | Case 45671 | Lab EQI | Issue Laboratory problems | FINAL

Attachments:

45671 F6R05.PDF; 45671 F6R29.PDF

Good morning,

Issue: Region 9 received hard copies of EQI's responses to results of contract compliance screening for Case number 45671, SDGs F6R29 and F6R05, which is a Region 6 Case.

Resolution: Fed Ex account number 104850952 was provided in order to ship the data to Region 6. Region 6's address for data delivery is below. PDFs are also attached.

USEPA Region VI Houston Laboratory 10625 Fallstone Road (MS 6MD-HO) Houston, TX 77099-4303

Please let me know if you have any questions or problems. To waive any defect(s) associated with this issue, please contact your Regional CLP COR. Thanks,

WHITLEE DEAN

Environmental Coordinator- Regions 6 and 9 CSC Government Solutions LLC, A CSRA Company

6361 Walker Lane Alexandria, VA 22310 t:+1.703.461.2322 | Whitlee.Dean@csra.com www.csra.com

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From: To:

Robert Zhu <rzhu@shealylab.com>

Date:

wdean9@csgov.com, Brad Belding belding@shealylab.com, Dan Wright dwright@shealylab.com, Neil Magee nmagee@shealylab.com, Dan Wright dwright@shealylab.com, Neil Magee nmagee@shealylab.com

01/25/2016 09:25 AM

Subject.

RE: Region 06 | Case 45671 | Lab EQI | Issue Laboratory problems

Whitlee,

FedEx acct# is 104850952.

Thanks,

Robert Zhu
Technical Director
Shealy Environmental Services, Inc.
803-227-3152 fax 803-791-9111
rzhu@shealylab.com
www.shealylab.com

From: Whitlee Dean [mailto:Whitlee.Dean@csra.com]

Sent: Monday, January 25, 2016 9:06 AM

To: Brad Belding <bbelding@shealylab.com>; Dan Wright <dwright@shealylab.com>; Neil Magee <nmagee@shealylab.com>; Robert

Zhu <rzhu@shealylab.com>

Subject: Region 06 | Case 45671 | Lab EQI | Issue Laboratory problems

Good morning,

Region 9 has advised that they have received data for Case 45671, which is a Region 6 Case. Please provide an account number so that this data may be shipped to the correct Region.

Please let me know if you have any questions. Thanks.

WHITLEE DEAN

Environmental Coordinator- Regions 6 and 9 CSC Government Solutions LLC, A CSRA Company

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---- Forwarded by Whitlee Dean/AMER/CSGov on 01/25/2016 09:01 AM ----

From: R9RSCC < R9RSCC@epa.gov >

To: wdean9@csgov.com

Cc: R9RSCC <R9RSCC@epa.gov>

Date: 01/22/2016 08:02 PM

Subject: Received another Region's Lab response from EQI Sent by: "Sturges, Susan" < Sturges.Susan@epa.gov>

Hi Whitlee.

Region 9 received hard copies of EQI's responses to results of contract compliance screening (Organics) for CLP Case number 45671, SDGs F6R29 and F6R05. Can you verify which Region these belong to? We can mail the hard copies, but I've attached a PDF of both if